Test - Decimals and percentages

Year: Year 7 · Duration: 45 minutes · /20

Name:	Date:	**Mark: /20**

Question	1	2	3	4	5	Total
marks	4	4	4	4	4	**20**
Mark						

Show your working.

Question 1 (4 marks)

Question 1 – Decimals

(a) Work out $14.6 - 8.75$. (1 mark)
(b) Work out 3.4×0.6. (1 mark)
(c) Work out $7.2 \div 0.09$. (2 marks)

Question 2 (4 marks)

Question 2 – Percentages

(a) Write $\frac{7}{25}$ as a decimal and a percentage. (2 marks)
(b) Work out 35% of £240. (1 mark)
(c) Increase £80 by 15%. (1 mark)

Question 3 (4 marks)

Question 3 – Percentage change

The price of a coat is £90. In a sale it is reduced by 30%.

a. Work out the sale price. (1 mark)
b. After the sale the price is increased by 30%. Is the new price more than, less than or equal to £90? Show your working. (2 marks)
c. Write £63 as a percentage of £90. (1 mark)

Question 4 (4 marks)

Question 4 – Problem: the school fair

At the school fair 480 people attend. 35% are children, 45% are adults and the rest are teachers and helpers. Tickets cost £3 for children and £5 for adults. Teachers and helpers go free.

a. How many people are teachers and helpers? (2 marks)
b. How much money is made from tickets? (2 marks)

Question 5 (4 marks)

Question 5 – Problem: the savings account

Sam has £500. He puts it in an account paying 4% interest each year (simple interest). His sister Eva puts £400 in an account paying 5% interest each year (simple interest).

a. How much interest does each of them earn in 1 year? (2 marks)
b. How much does each have after 3 years? (2 marks)